LASHCHILINA, Z. V.

28587

Matyerialyk Sanitarwo Baktyeriologichyeskomu Standartu Lyechyebnoy Tambukanskoy Gryazi Trudy Gos. Nauch Isslyed Balbnyeol In-Ta Na ^Ravkazsk ^Minyeral Vodakh T.XXVIII 1949, 5. 281-307-Bibliogr: is Nazv

SO: LETOPIS NO. 38

LASHCHINSKIY, A.A., inzh.; TOLCHINSKIY, A.R., inzh.; GOLUBEV, B.A., inzh., retsenzent; YERSHOV, B.A., inzh., retsenzent; LOGINOV, N.N., inzh., red.; VASIL'YEVA, V.P., red.1zd-va; MIKHEYEVA, R.N., red.izd-va; SPERANSKAYA, O.V., tekhn.red.

[Fundamentals of the design and calculation of chemical apparatus] Osnovy konstruirovaniia i rascheta khimicheskoi apparatury; spravochnik. Moskva, Mashgiz, 1963. 468 p. (MIRA 17:1)

LASHCHINSKIY, B.N.

At an enterprise of communist labor. Avtom., telem. i sviaz: 5 no.3:21-23 Mr '61. (MIRA 14:9)

l. Nachal'nik Zaporozhskoy distantsii signalizatsii i svyazi Stalinskoy dorogi. (Railroads--Signaling)

Lashehinskin, N.H.

USSR / Forest y. Biology and Typology of the Forest. K-2

Abs Jour: h. Zhur - Biologiya, No. 1, 1958, 1314

Author: Lashch. skiy, N.N.

Inst : Sibirian Forest Engineering Inst.

Title : Reforestation and Cut-over Areas under Conditions of the Mountainous Regions of Irkutskaya Oblast'

Orig Pub: Sb. stud. nauchno-issled. rabot Sibirsk. lesotekhn.

in-ta, Krasnoyarsk, 1957, 155-167

Abstract: The project was completed on the territory of the

Shaman forestry operation of the Irkutsk forest economic region. Described are red bilberry, wild rosemary-red bilberry, red-bilberry-green moss, beach grass-varied grasses, and (not widely spread)

Card 1/2

USSR / Forestry. Biology and Typology.

K-2

Abs Jour: Ref Zhur-Biol., No 16, 1958, 72783.

Author : Lashchinskiy, N. N.

: West Siberian Branch AS USSR.

: Deciduous Forest Types of the Ust!-Kanskiy Deskhoz. Title

Orig Pub: Tr. po lesn. kh-vu Zap. Sibiri. Zap.-Sib. fil. AN

SSSR, 1957, vyp. 3, 153-166.

Abstract: Natural renewal of the Larix sibirica var altaica with simultaneous study of deciduous forests types were investigated in 1956 in the Koksy River Basin (left tributary of the Katun! River). One of the most widespread types is the leafy grass variety in the southwestern, western and eastern slopes at 1200-1400 m. Timber stand is single stage, purely

of II-IV quality. Underbrush is rare. It is well

Card 1/4

13

USSR / Forestry. Biology and Typology.

K-2

Abs Jour: Ref Zhur-Biol., No 16, 1958, 72783.

Abstract: developed, rich in herbaceous cover. Mosses are met in small areas along the hollow sides. This type alternates with the leafy grass variety. On the hollow slopes, an original type is the Siberian leafy grass at a height of 1300 m, characterized by significant humidity of the humus horizon, ground water lying closer to the surface, and greater density of underbrush from the Sibirica altaica. In a well-developed herbaceous stage, up to 40 species are counted. The Sibirica leafy grass variety "listvyag" of the II-IV quality is adapted to the flat lowlands. Thick underbrush, rich in composition, are adapted to gaps in the canopy. Up to 60 species are counted in the herbaceous grass variety stage. Leafy spirea-grass variety develops on the northwestern, northeastern

Card 2/4

USSR / Forestry. Biology and Typology.

K-2

Abs Jour: Ref Zhur-Biol., No 16, 1958, 72783.

Abstract: and eastern slopes at a height of 1300-1600 m_{\bullet} Timber stand is single stage, predominantly deciduous with dense underbrush. Grass varieties predominate in well developed herbaceous cover. An original and rather rare type on the steep hollow slopes at a height of 1500-1600 m is the leafy spirea. Common spirea predominates in the dense underbrush. Herbaceous cover is rare and poor in composition. Mosses occupy up to 50% of the soil surface. The halberd-leaved leafy grass is located on the northeastern slopes at a height of 1300-1400 m. Underbrush is rare. An almost continuous grass cover is composed of grasses 2 m in height. In the moss stage Mnium predominates. In the southwestern and southern slopes to the subalpine belt, leafy reed bentgrass-grass varieties

Card 3/4

14

Role of animals in the life of deciduous and pine forest of the Altai. Inv.Sib.otd.AN SSSR no.2:117-127 '59.

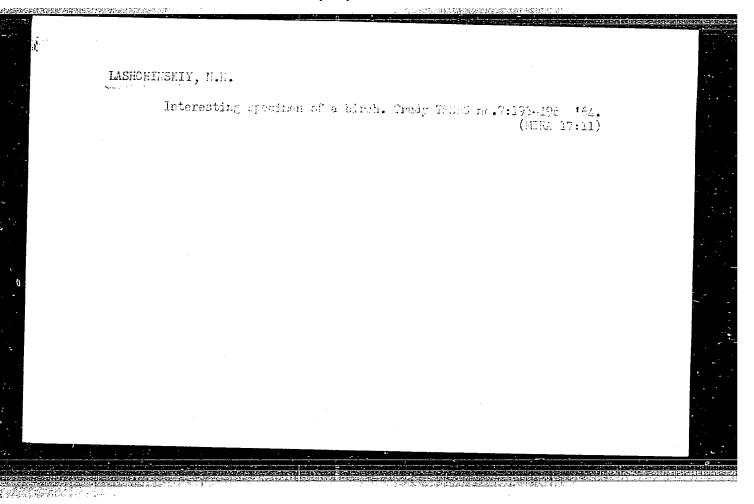
(MIRA 12:7)

1. Zapadno-Sibirskiy filial Sibirskogo otdeleniya AN SSSR.

(Altai Territory-Forest fauna)

LASHCHINSKIY, N. N.

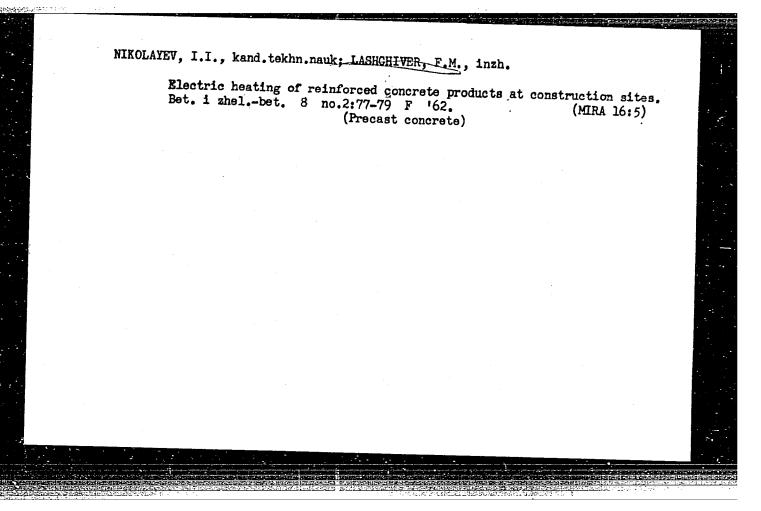
Cand Biol Sci - (diss) "Natural reforestation of Siberian larch in the main types of forest of the Gornyy Altay." Novosibirsk, 1961. 19 pp; (Academy of Sciences, Siberian Division, Inst of Forests and Trees); number of copies not given; price not given; (KL, 6-61 sup, 208)



LASHCHINSKIY, N.N.

Interrelationship between fir and spruce in the southern taiga of Krasnoyarsk Territory. Izv. SO AN SSSR no.4 Ser. biol.-med.nauk no.1:23-26 '65. (MIRA 18:8)

1. TSentral'nyy Sibirskiy botanicheskiy sad Sibirskogo otdeleniya AN SSSR, Novosibirsk.



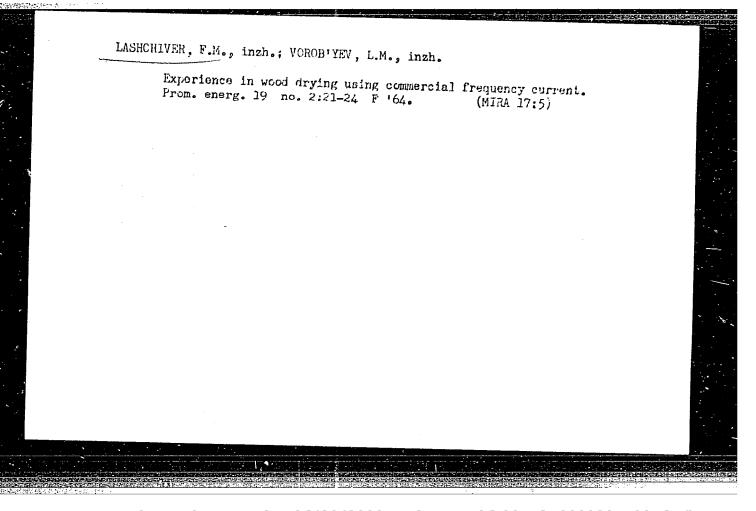
LASHCHIVER, F.M., inzh.; OSTROVSKIY, G.A., inzh.

Safety measures concerned with electricity in construction.

Mekh. stroi. 18 no.11:20-21 N '61. (MIRA 16:7)

(Excavating machinery—Safety measures)

(Electric welding—Safety measures)

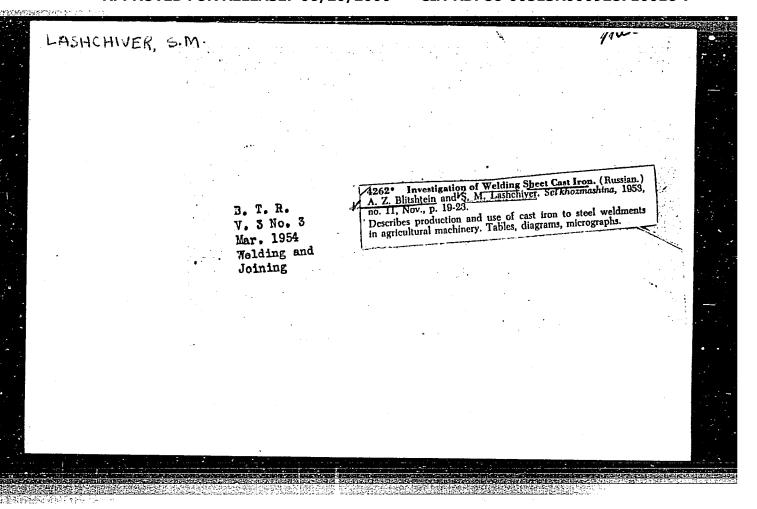


LASHCHIVER, S.M.; SERGEYEV, S.M.; ROZEN, G.M.; YASHUNSKIY, R.G.

Automatic line for manufacturing the air brake reservoir of the ZIL-130 automobile. Avt.prom. no.3:34-38 Mr 161. (MIRA 14:3)

l. Nauchno-issledovatel'skiy eksperimental'nyy institut avtotraktornogo elektrooborudovaniya i priborov.

(Automobiles-Brakes) (Assembly-line methods)



LASHCHIVER, S. M.

"Investigation of the Technological Process for the Repair, by Means of Electric Arc Welding, of Cast Iron Agricultural Machine Parts." Cand Tech Sci, Moscow Inst for the Mechanization and Electrification of Agriculture imeni V. M. Molotov, Min Higher Education, Moscow, 1955. (KL, No 18, Apr 55)

SO: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (16).

LASHCHIVER, S.M.

135-9-6/24

AUTHOR:

Lashchiver, S.M., Candidate of Technical Sciences

TITLE:

Arc-Welding of Grey Cast Iron with Cast Iron Electrodes (O dugovoy svarke serogo chuguna chugunnymi electrodami)

PERIODICAL:

"Svarochnoye Proizvodstvo", 1957, # 9, p 16-19 (USSR)

ABSTRACT:

A method for calculating the welding technology for cast iron developed by "MVTU" is described along with experiments involved. The critical cooling speed was found to be around 5°C/sec. An approximate relation is determined between the welding technology and hardness in the case of welding upon the surface of a grey cast iron slab with the use of cast iron electrodes with graphitizing coatings.

The article contains 4 diagrams, 2 tables and 2 microphoto-

graphs

ASSOCIATION: Moscow Higher Technical School (MVTU)

AVAILABLE:

Library of Congress

Card 1/1

18(5), 25(1,5)

SOV/135-59-7-6/15

AUTHORS:

Gel man, A.S. Doctor of Technical Sciences, Professor, and Slepak, E.S., Candidate of Technical Sciences (TSNITTMASh). Jashchiver, S.M., Candidate of Technical Sciences (NIITAVTOPROM), Mamrikov, P.V., (Mytishchi

Machine Bulding Plant)

TITLE:

Projection Spot Welding of Hot Rolled Steel

PERIODICAL:

Svarochnoye proizvodstvo, 1959, Nr 7, pp 19-22 (USSR)

ABSTRACT:

The authors review the experience in projection spotwelding of hot-rolled steel sheets at the Mytishchinskiy mashinostroitel'nyy zavod (Mytishchi Building Plant). This method was suggested by TsPIIT-MASh several years ago, then studied by NIITAVTOPROF and finally it was introduced at the aforementioned plant. There it is used for the manufacture of semitrailer parts with satisfactory results. The authors present operational data in tables and graphs. There are 3 photographs, 4 diagrams, 3 tables and 1 graph.

Card 1/2

CIA-RDP86-00513R000928710016-7" APPROVED FOR RELEASE: 06/20/2000

907/135-59-7-6/15

Projection Spot Welding of Hot Rolled Steel

ASSOCIATION: TSNIITMASE; NIITAVTOPROM; Mytishchinskiy mashinostroitelinyy zavod (Mytishchi Machine Building Plant)

Card 2/2

I. 20808-65 ENT(d)/ENA(d)/ENP(v)/ENP(k)/ENP(h)/ENP(1) Pf-L AFTC(p)

ACCESSION NR: ARLOL8235

s/0137/6ly/000/009/E036/E036

SOUNCE: Ref. zh. Metallurgiya, Abs. 9E237

AUTHOR: Shably*gin, S. V.; Balatskiy, A. A.; Lashchiver, S. M.; Gurevica, A. I.

TITLE: Contact welding with the application of peaked current pulses

CITED SOURCE: Tr. N.-1. in-ta tekhnol. svtomob. prom-sti, vy*p. 12, 1964, 33-41

TOPIC TAGS: welding, welding equipment, welding current, contact welding, current pulse, peaked current pulse

TRANSLATION: Preliminary results are presented of an investigation of the operation of a contact welding machine whose design makes it possible to obtain peaked pulses of welding current which have a considerable magnitude but which are of short duration. A basic diagram of the setup is given. The effect of the angle of ignition of the ignitrons on the form of the pulse produced by the welding current and on the magnitude of the voltage in the condenser, as well

Cord 1/2

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ACCESSION NR: AR4048235

as the effect of capacitance on the nature of the process set up is considered. A process for rating current and voltage at the moment the power is switched on is described, and there is given a comparison of curves for current and voltage with the condenser and without it. The experiments made it possible to establish that in the operation of a welding machine using a synchronized circuit breaker followed by a condenser it is possible: 1. to produce peaked current pulses with a gradual increase in the peak magnitudes of the pulses, 2. to increase the limiting power of the welding transformer, and 3. to increase the power coefficient of the equipment to a value close to unity under the condition that low power (300-600 millifarads) condensers are used.

S'B CODE: MM

ENGL: 00

Card 2/2

LASHCHUK, I.: KHAYMOVICH, A.; MARKIN, I.; KOPCHENOV, V.

The best construction workers. Stroitel' no.11:6 N '57.
(MIRA 10:12)

1. Brigadir komplekenov brigady santekhnikov, Stroyupravleniye
No. 74, Orel.
(Construction workers)

15-57-2-1448

Referativnyy zhurnal, Geologiya, 1957, Nr 2, Translation from:

p 40 (USSR)

AUTHOR:

Lashchuk, L. P.

TITLE:

Habitat at Krasnaya Gora Near Syktyvkar (Stoyanka

Krasnaya gora bliz Syktyvkara)

PERIODICAL:

Izv. Komi fil. Vses. geogr. o-va, 1955, Nr 13, pp 72-77

ABSTRACT:

Collections made by various investigators at Krasnaya Gora near Syktyvkar during the last decades are very valuable in the study of early archeological locations in the territory of Komi ASSR. Various flint tools, a bronze axe (14th or 13th century B.C.) and numerous pottery vessels were discovered here. The youngest finds belong to the 14th and 15th centuries A.D. From the data of D. Rudnev given in O stoyankakh doistori-cheskogo cheloveka na r. Vychegde. "Severnyy kray" (Vologda), kn. I, 1922 / Dwelling Places of Prehistoric

Card 1/2

CIA-RDP86-00513R000928710016-7" APPROVED FOR RELEASE: 06/20/2000

15-57-2-1448

Habitat at Krasnay Gora (Cont.)

Man on the Vychegda River. "Northern Region" (Vologda), Book 1, 1922/, pottery of the early dwelling places at Krasnaya Gora is in many respects similar to the Vanvizdinskaya (at the mouth of the Vym' River), believed to be of 8th to 6th century B.C. Careful study of the ceramics and the character of the flint tools allows us to make a few additional conclusions. The pottery of Krasnaya Gora has much in common with the Kama-Vetluga pottery (7th to 5th century B.C.). This culture was not isolated from other cultures of the Volga and Kama, and maintained a definite contact with them. One or several of such related cultures existed in the basin of the North Dvina. It follows, therefore, that one should look for the cultural roots of both the Krasnaya Gora and the Vanvizdinskiye habitats in this district.

Card 2/2

PARLLIF, L., PHTRESKU, S. [Petrescu, S.] (Rumyniya), MOSKOVICH, M.
LASHKU, N. [Lashcu, N.] (Rumyniya)

Pyrogen therapy of progressive paralysis using baker's yeast extract.
Zhur.nevr. i psith. 58 no.10:1201-1203 '58 (MHA 11:11)

(PARESIS, ther.

fever ther. with baker's yeast extract (Rus))

(FEVER THERAFY, in var. dis.

paresis, baker's yeast extract as pyrogen (Rus))

(YRAST, DRIED, extract,

as pyrogen in fever ther. of paresis (Rus))

Considerations on N.A.Kraevskii and A.D.Sobolevaia's article "Patho-anatomical characteristics of leucoses" (Arkhiv patologii, 1953, no.3). Arkh.pat. 16 no.1:82-83 Ja-Nr '54. (MIRA 7:5) 1. Iz kafedry patologicheskoy anatomii (zaveduyushchiy = dotsent Ya.I. Lashene) Kaunasskogo meditsinskogo instituta. (Tumors) (Kraevskii, N.A.) (Sobolevaia, A.D.)

LASHENE, Ya.I., [Lasiene, J.], prof. (Kaunas)

Functional and morphological state of the endocrine glands in newborn infants as a manifestation of the adaptation syndrome. Probl. endok. i gorm. no.2:62-67'63. (MIRA 16:7)

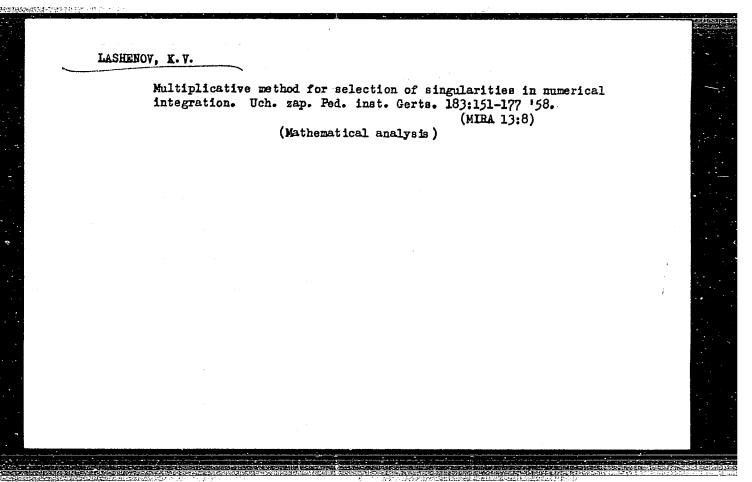
1. Iz kafedry patologicheskoy anatomii (zav. - prof. Ya.I. Lashene) (Kaunasskogo meditsinskogo instituta. (ENDOCRINE GLANDS) (INFANTS (NEWBORN))

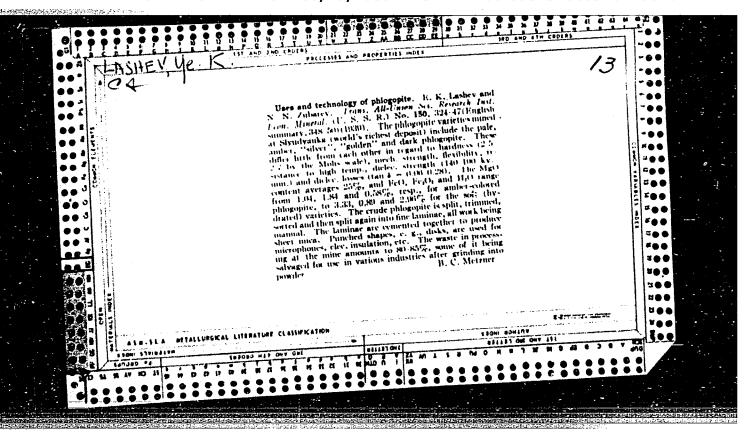
Influence of pathological factors in the mother's body on the thyroid gland of the fetus. Vop. okh. mat. i det. 5 no.6:86-87 N-D '60. 1. Iz Kaunasskogo meditsinskogo instituta. (PREGNANCY, COMPLICATIONS OF) (THYROID GLAND) (FETUS....DISEASES)

LASHENE, Ya.I., [Lestere, J.], prof.; STALIORAYTITE, Ye.I. [Stalioraityte, E.]

Fourth Republic Scientific Conference of Pathoanatomists of the Lithuanian S.S.R. Arkh. pat. 25 no.4291-93 *63 (MIRA 17:4)

1. Predsedatel* Litovskogo Respublikanskogo obshchestva patologoanatomov (for Lashene). 2. Uchenyy sekretar! Litovskogo Respublikanskogo obshchestva patologoanatomov (for Stalioraytite).





LASHEV, YE. K.; MAFKOV, P. N.; SULOYEV, A. I.

Georgraphy & Geology

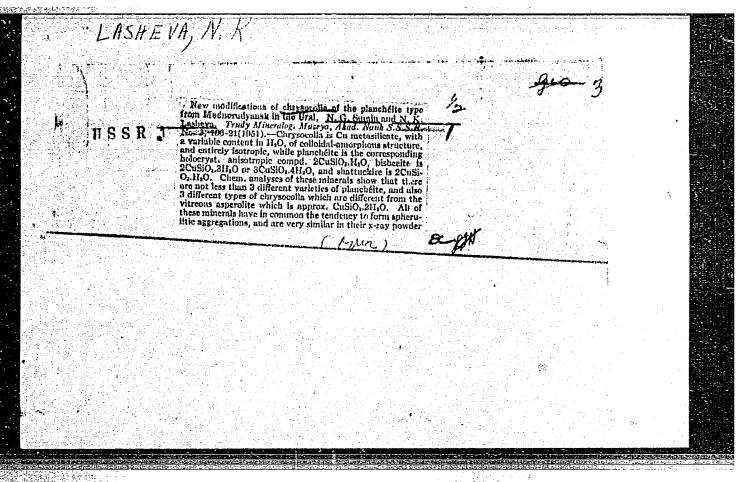
Requirement of industry as to the quality of mineral raw materials. Handbook for geologists--Moskva, Go. izd-vo geologicheskoi lit-ry Komiteta po delam geologii pri SNK SSSR, No. 23, Mica (muscovite and phlogopite), 1947.

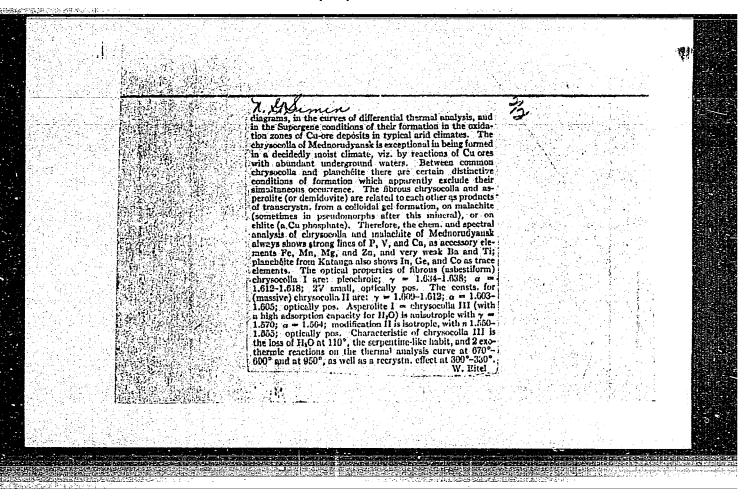
Monthly List of Russian Accessions, Library of Congress, October 1952. UNCLASSIFIED.

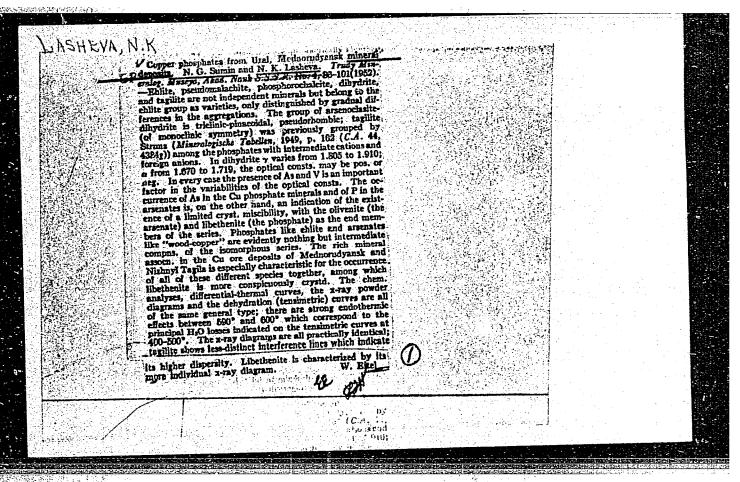
LASHEV, Evgenii Konstantinovich

LASHEV, Evgenii Konstantinovich: Mica. Moskva, Gos. izd-vo lit-ry po stroitel'nym
materialam, 1948- (48-26061).

TN933.135







GARANIN, N.P., red.; LASHEVICH, V.I., red.; SURIKOV, N.I., red.; URAZAYEV, A.K., red.; FISENKO, V.A., red.; YURASOVA, M.K., red.; MEL'NIKOV, V.I., tekhm. red.

[Hardbook and guide to the Irtysh and the lower part of the Ob' Valley] Putevoditel'-spravochmik po Irtyshu i Nizhnei Obi. Omsk, Valley] Putevoditel'-spravochmik po Irtyshu i Nizhnei Obi. Omsk, Valley Omskoe knizhnoe izd-vo, 1960. 156 p.

[Hardbook and guide to the Irtysh and the lower part of the Ob' Valley] Putevoditel'-spravochmik po Irtyshu i Nizhnei Obi. Omsk, Valley Omskoe knizhnoe izd-vo, 1960. 156 p.

[Hardbook and guide to the Irtysh and the lower part of the Ob' Valley] Omskoe knizhnoe izd-vo, 1960. 156 p.

[Hardbook and guide to the Irtysh and the lower part of the Ob' Omskoe knizhnoe izd-vo, 1960. 156 p.

[Hardbook and guide to the Irtysh and the lower part of the Ob' Omskoe knizhnoe izd-vo, 1960. 156 p.

[Hardbook and guide to the Irtysh and the lower part of the Ob' Omskoe knizhnoe izd-vo, 1960. 156 p.

[Hardbook and guide to the Irtysh and the lower part of the Ob' Omskoe knizhnoe izd-vo, 1960. 156 p.

[Hardbook and guide to the Irtysh and the lower part of the Ob' Omskoe knizhnoe izd-vo, 1960. 156 p.

[Hardbook and guide to the Irtysh and the lower part of the Ob' Omskoe knizhnoe izd-vo, 1960. 156 p.

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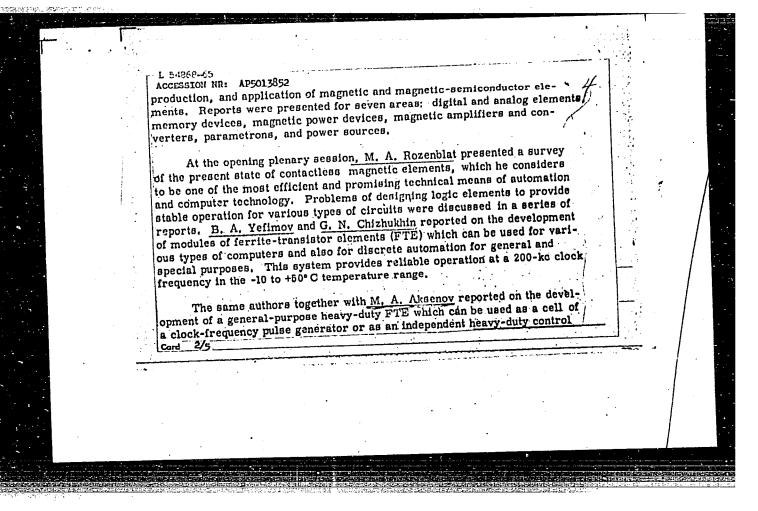
LASHEEV, I.

U osoaviakhimovtsev Kieva. With the Osoaviakhim members of the Kiev branch. (Za oboronu, 1944, no. 15, p. 15).

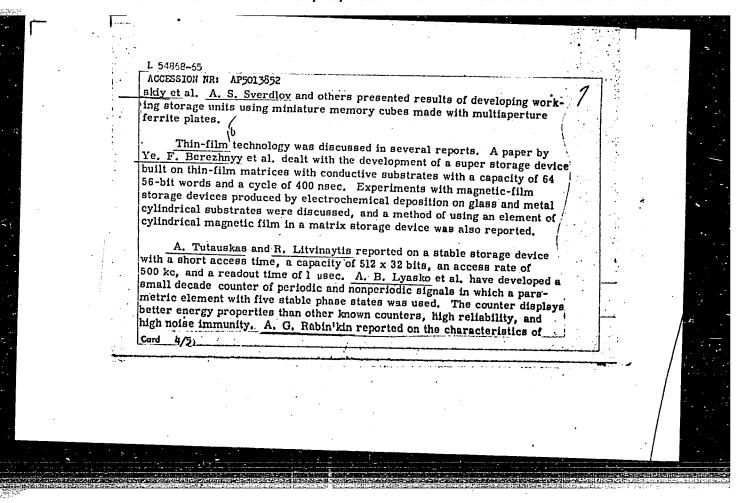
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| | *. | TITLE: All-Union Conference on magnetic elements of automation and computer technique | | | |
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| | | SOURCE: Avtomatika i tolemekhanika, v. 26, no. 5, 1965, 938-942 | • | | |
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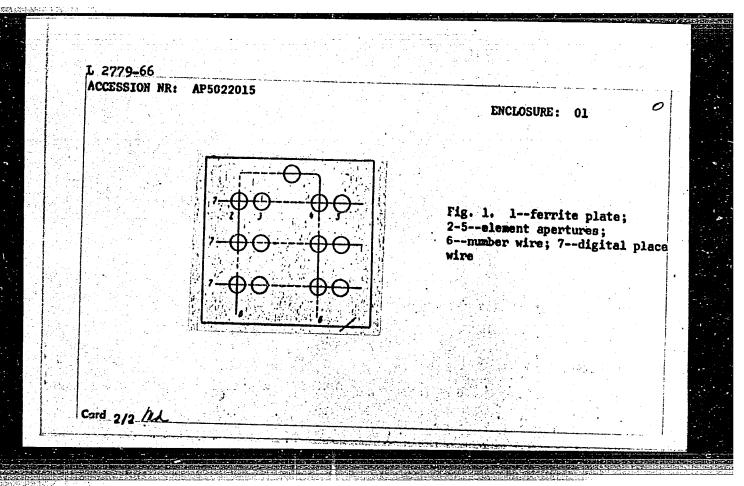


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| | | | element. It is capable of performing command recording or readout of in- | |
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| | | _ | Tyumin, B. A. Yefimov, and A. A. Shavrov reported on the development and testing of biax-type logic circuits operating at 1 Mc and performing | |
| 1 | • | | several logic operations. Advantages cited are: high s/n ratio, about 20; | |
| 1. | • | | high switching rate, about 2 Mc; and high reliability due to the simplicity of | |
| | | | the circuit. Such circuits may also be used in complex logic devices. | |
| 1 | | | Additional reports discussed logic circuits using biax-type elements in a | |
| | • | | working storage device with a nondestructive readout cycle of 10 ⁻⁷ sec and a | |
| | | | recording time for new information of several microseconds. L. P. Afinogenov et al. reported on discrete and discrete-analog | |
| 14 | | | computer units based on the use of the area of an emf pulse originating in | |
| | • | | the winding during magnetization reversal in the ferrite. Development of | |
| | | | ferrite matrixes which release a voltage pulse at the output with an area | |
| | | | proportional to the code supplied at the matrix input was also discussed. | |
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| 3 | | | elements with multisperture ferrite plates were presented by R. A. Lashev- | i |
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| · · | ing devices (adder, integrate amplifiers using magnetic a | | sed on single-st | age magnetic | | |
| | A large number of rep | orts was devoted | to the theory and | i application of | | _ |
| | power magnetic devices. T. A. M. Bamdas concerning fof great interest in this field | requency multipli | ers and voltage | stabilizers were | | |
| | ASSOCIATION: none | -1 | • | | | |
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| ACCESSION NR: AP5022015 |) IJP(c) BB/GG |
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| | UR/0285/65/000/014/0086/0086 681.142-523.8.07 |
| AUTHOR: Lashevskiy, R. A.; Tamar | rchenko, N. G. uy |
| TITLE: A memory element based on | ۵ |
| No. 173028 | a multiple-aperture ferrite plate. Class 42, |
| 하셨다. 하는데 이 등 그 때문에 가장 하는 것 같아. | i de la companya de |
| -J 1zobreteniy 1 | tovarnykh znakov, no. 14, 1965, 86 |
| TODIO MADO | |
| OPIC TAGS: ferrite, computer men | mory , ay |
| TOPIC TAGS: ferrite, computer men | mory 16C144 |
| le-aperture fermite plate with | ate introduces a memory element based on a multi- |
| le-aperture ferrite plate with to | ate introduces a memory element based on a multi- |
| perational stability | wo pairs of apertures through which the digital are passed. A higher speed element with income. |
| perational stability | wo pairs of apertures through which the digital are passed. A higher speed element with income. |
| ple-aperture ferrite plate with to lace wires and the number wires a perational stability is produced hrough one aperture in each pair imiter. | ate introduces a memory element based on a multi- |
| ple-aperture ferrite plate with to ple-aperture ferrite plate with to place wires and the number wires a perational stability is produced hrough one aperture in each pair imiter. SSOCIATION: none | ate introduces a memory element based on a multi- wo pairs of apertures through which the digital are passed. A higher speed element with increased by passing the numerical and digital place wires and using the other aperture as a magnetic flux |
| ple-aperture ferrite plate with to lace wires and the number wires a perational stability is produced hrough one aperture in each pair imiter. | wo pairs of apertures through which the digital are passed. A higher speed element with income. |



L 16419-66 EVT(d)/EPF(n)-2/EVP(1)

IJP(c) BB/GG

ACC NR: AP6006387

SOURCE CODE: UR/0413/66/000/002/0118/0118

INVENTOR: Staros, F. G.; Berg, I. V.; Kreynin, S. I.; Lashevskiy, R. A.;

Maksimov, M. N.; Tamarchenko, N. G. Shenderovich, Yu. I.; Yevstegneyev, M. I.; 4/

Bekker, Ya. M.

ORG: none

TITLE: Storage device. Class 42, No. 178178

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 2, 1966, 118

TOPIC TAGS: storage device, computer circuit, microelectronic device

ABSTRACT: The proposed storage device (see Fig. 1) utilizes multiple-aperture ferrite plates and contains number plates and a decoder plate. To facilitate manufacture and microminiaturization of the device, the number conductor, which is printed on the number plate, is connected to a conductor passing through the

Card 1/2

UDC: 681.142

L 16419-66

ACC NR: AP6006387

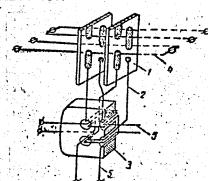


Fig. 1. Storage device

1 - Number plate; 2 - output winding; 3 - decoder plate; 4 - digit winding; 5 - decoder crossbar winding.

two apertures of the decoder; the number plates together with the decoder plate are mounted in a holder which is filled with a thermosetting compound. Orig. art. has: 1 figure. [DW]

SUB CODE: 09/ SUBM DATE: 25Jan65/ ATD PRESS: 4205

Card 2/25M

L 43883-66 BB/GG SOURCE CODE: UR/0413/66/000/016/0055/0055 LJP(c) ACC NR: AP6030573 INVENTOR: Kreynin, S. I.; Lashevskiy, R. A.; Maksimov, M. N.; Rabkina, N. V.; Khavkin, V. Ye.; Skvortsov, A. M.; Norkin, L. M. 1/2 رسى ORG: none Memory device. Class 21, No. 184935 TITLE: SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 16, 1966, 55 TOPIC TAGS: computer memory, computer storage device ABSTRACT: This Author Certificate introduces a word-organized memory consisting of multiaperture ferrite plates, and a magnetic decoder with transformers using multiaperture ferrite plates (see Fig. 1). To increase both the speed and capacity Fig. 1. Memory device 1 - Ferrite plate; 2 - diode matrix; 3 - bias winding; 4 - excitation winding; 5 - output winding; 6 - printed winding. UDC: 681.142.07 Card 1/2

L 43883-66

ACC NR: AP6030573

and to reduce the required power, the magnetic decoder contains a diode matrix of integral planar structures with a number of p-n junctions equal to the number of addresses in the device. Orig. art. has: 1 figure. [JR]

SUB CODE: 09/ SUMB DATE: 20May 65/ ATD PRESS: 5075

Card 2/2 mjs

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000928710016-7

L 08898-67 EWT(d)/EWT(l)/EWP(l) / IJP(c) BB/GG/GD SOURCE CODE: UR/0000/66/000/000/0182/0186

AUTHOR: Lashevskiy, R. A.

ORG: none

TITLE: Some problems of impulse magnetic reversal of ferrites with rectangular hysteresis loops, originating during the use of memory elements in multiperforated sheets

SOURCE: Vsesoyuznoye soveshchaniye po ferritam. 4th, Minsk. Fizicheskiye i fiziko-khimicheskiye svoystva ferritov (Physical and physicochemical properties of ferrites); doklady soveshchaniya. Minsk, Nauka i tekhnika, 1966, 182-186

TOPIC TAGS: ferrite, ferrite core memory, memory core, computer component, magnetic field, commutator

ABSTRACT: Impulse magnetic reversal of multiperforated ferrite sheets used in memory circuits was studied. Diagrams of a typical circuit and of a cross sectional view of a sheet with magnetic and inductive field distributions are shown. Three zones lying near the perforations were defined: the zone of radius r₁ in which

 $\int_{0}^{t} (H-H_{0}) dt > S_{w},$

where S_{ij} if the magnetization coefficient and H_{ij} is the initial field; the circular

Card 1/2

L 08898-67

ACC NR: AT6028986

zone of radius r2-r1 where

$$\int_{0}^{t} (H - H_{0}) dt < S_{w},$$

but the field strength exceeds the coercive force $(H > H_c)$; and the zone where $r > r_2$ and $H < H_c$. During magnetic reversal, a signal is affected by all three zones. A characteristic of memory storage units composed of multiperforated sheets is the presence of a general magnetic environment near adjacent memory elements. The effect of current flowing through a perforation on the magnetic flux near adjacent elements was examined. Perforated sheets made from 1.5 VT grade ferrite had 0.6 mm diameter holes spaced 1.6 mm apart. For a current flowing through hole 1 (i_1) , a magnetic flux (ϕ_2) and an emf (e_2) were induced around hole 2, and vice versa. Nonreversible flux changes of ϕ_2 only occurred during the first impulse of i_1 . Subsequent current impulses produced reversible flux changes. The spacing of perforations affected the dependence of magnetic flux on current. Changes in ϕ_1 and ϕ_2 were given as functions of current for an 0.8 VT grade ferrite sheet with 0.5 mm hole spacings. On the upper part of the sheet, the magnetic reversal of pairs of holes took place at a lower current than for the lower pairs. Full commutation of elements with closer spacings also occurred at a lower current. Orig. art. has: 5 figures, 2 formulas.

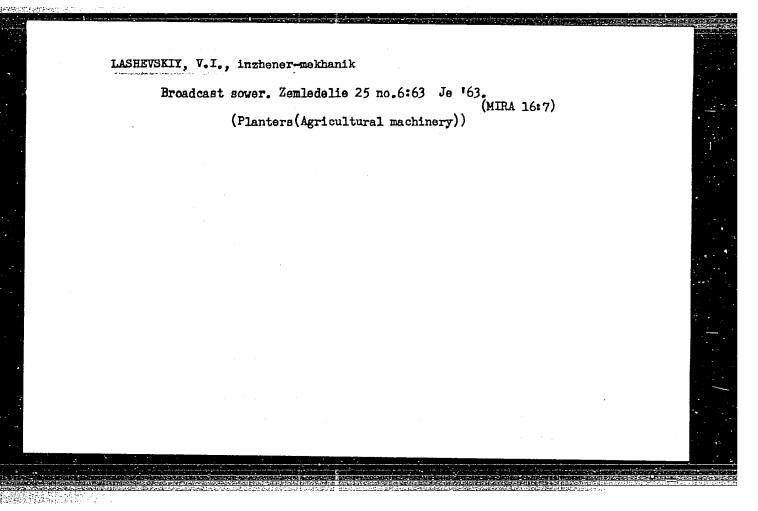
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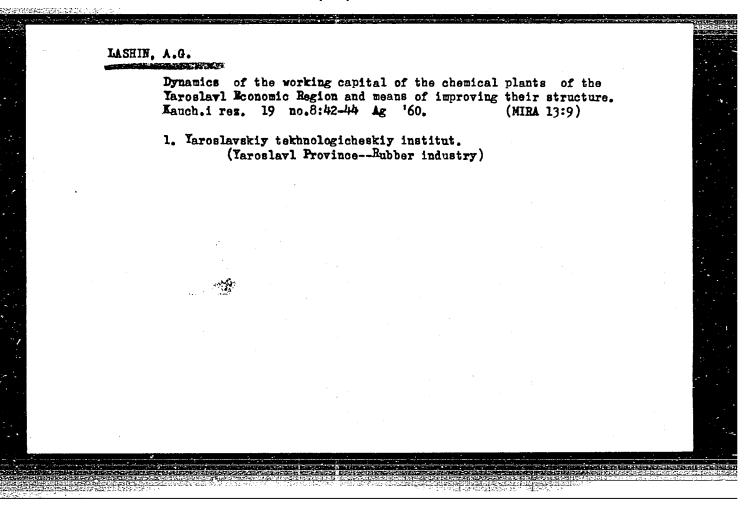
SUBM DATE: 22Dec65/

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OTH REF: 001

Card 2/2

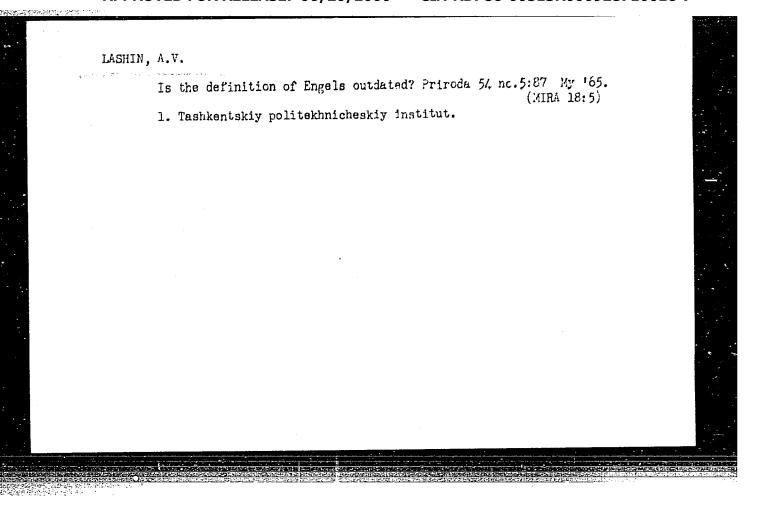




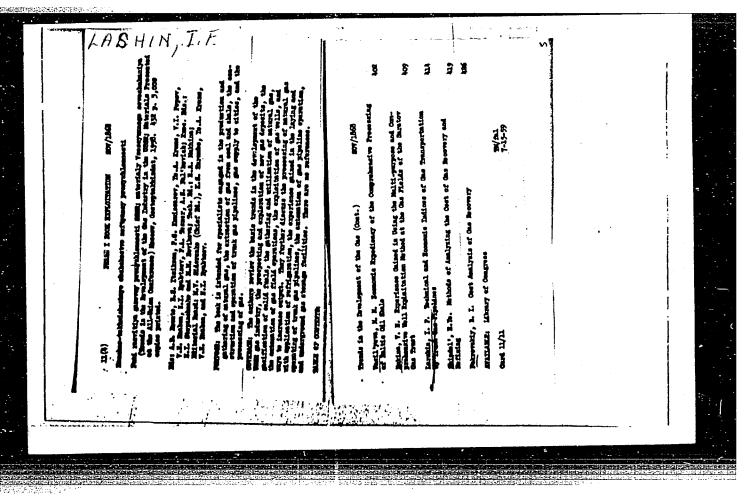
IVANOV, Yuriy Viktorovich; VOLKOV, S.1., dots., retsensent; LASHIN, A.N., retsensent; MAKAROV, M.S., red.

[Planning and accounting ing in machine accounting startions] Planirovanie i uchet na mashinoschetnykh ustanovkakh. Moskva, Statistika, 1964. 66 p. (MHA 17:11)

1. Director Pervoy moskovskoy fabriki mechanizirovannogo schet (for Lashin).



"APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R000928710016-7



IASHIN, M.A., general-mayor aviatsii, Geroy Sovetskogo Soyuza,
voyennyy shturman pervogo klassa

Mavigator's control over airplane flights. Vest.Vozd.Fl.
no.7:49-53 Jl '60. (MIRA 13:7)

(Navigation (Aeronautics))

LASHIN, M.I.

The Committee on Stalin Prizes (of the Council of Ministers USER) in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Kultura, Moscow, No. 22-40, 20 Feb - 3 Apr. 1954)

Name

Title of Work

Rominated by

Gareyev, E.Z.
Arakelyan, U.G.
Bychkova, N.F.
Kolenko, A.Z.
Lashin, M.I.
Kuzema, V.G.
Kryachkov, P.Ya.

"Michurinian Varieties of Fruit Trees in Kirgiziya" Kirgiz Affiliate, Academy of Sciences USSR

SO: ¥-30604, 7 July 1954

LASHIN, V.N. [deceased]

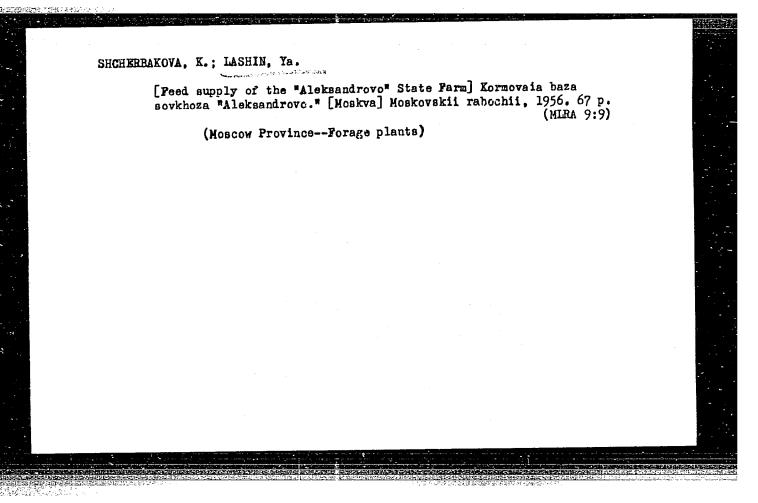
Scale insect of Turkmenistan. Trudy Turk.bot.sada no.2:102-157 '56.
(MLRA 10:9)
(Turkmenistan--Scale insects)

KOFMAN, D.M., dots., kand.tekhn.nauk; LASHIN, V.V.; MIKHAYLOV, S.M.

Improving the draft gear performance on RT-132 roving machines. Tekst.prom. 19 no.12:60-62 D '59. (MIRA 13:3)

1. Zamestitel' glavnogo inzhenera kombinata imeni S.M.Kirova (for Iashin).

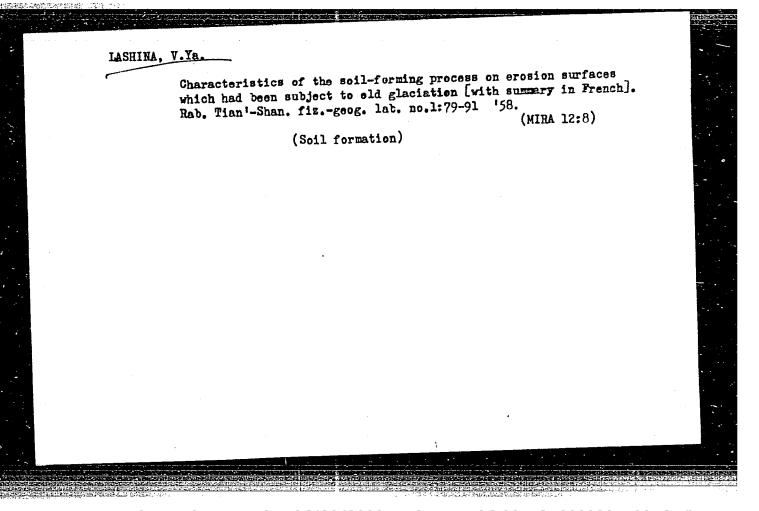
(Spinning machinery)



LASHINA, R.A.

Occupational aminazine poisoning [with summary in English]. Zhur.
nevr. i psikh. 57 no.8:1031-1032 '57. (MIRA 10:11)

1. Nevrologicheskoye otdeleniye (zav. E.A.Drogichina) Institute
gigiyeny truda i profzabolevaniy AMN SSSR, Moskva)
(CHICREPROMAZINE, poisoning,
occup. in pharm. workers (Rus))



Schibatkina, N.A., starshiy nauchnyy sotrudnik; LASHINA, Z.V.

Exhibation of textile fabrics. Tekst.prom.23 no.4:22-25 Ap '63.

(MIRA 16:4)

1. TSentral'nyy nauchno-issledovatel'skiy institut khlopchatobumazhnoy promyshlennosti (TSNIKhBI) (for Soldatkina). 2. Vsesoyuznyy institut assortimenta izdeliy legkoy promyshlennosti i kul'tury odezhdy (VIALegprom) (for Lashina).

(Communist countries—Textile fabrics) (Budapest—Exhibitions)

S/123/59/000/010/027/068 A004/A001

Translation from: Referativnyy zhurnal, Mashinostroyeniye, 1959, No. 10, pp. 113-114, # 38055

AUTHOR:

Lashinskaya, A.S.

TITLE:

A New Hardening Technology

PERIODICAL:

Prom. Altay (Sovnarkhoz Altayskogo ekon. adm. r-na), 1958, No. 2,

p. 32

TEXT: The author reports that a 0.5-0.7% solution of caustic soda in water is used as hardening agent. In order to reduce stresses, the heated machine parts of 45 grade steel are cooled in this solution through an oil layer (40-60 mm). The application of the mentioned cooling method results in savings of more than 100,000 rubles.

R.A.P.

Translator's note: This is the full translation of the original Russian abstract.

Card 1/1

| AUTHOR: Stepanov, B. I.; Lashitskaya, R. K. 94,55 ORG: Institute of Physics, AN BSSR (Institut fiziki AN BSSR) TITLE: The time-dependence of the absorption coefficient under the effect of intense short-term fluxes SOURCE: AN BSSR. Doklady, v. 9, no. 10, 1965, 651-653 TOPIC TAGS: light absorption, absorption band, absorption coefficient, optic filter, optic property 2,44,55 ABSTRACT: Recently, wide use has been made of optical switches made of a substance which becomes transparent under the effect of intense radiation fluxes of short duration. The search for bleachable absorbers is being conducted empirically. The present article examines the properties of a volume of the simplest two level system. It is assumed in the calculations that the broadening of the absorption band is uniform and, consequently, the incident fluxes cause no variation in the shape of the band. It is also assumed that the spectral width of the irradiating flux is considerably smaller than the width of the absorption band. An analysis of the calculations shows that the bleaching of the substance may be achieved only with certain fluxes. Flux magnitudes at which bleaching is achieved during the period of the order of 10-8 acc are relatively small and are easily produced under modern experimental conditions. | 559-66 EWT(1)/T IJP(c) WW/G NR: AP5027350 | SOURCE CODE: O | R/0250/65/009/010/0651/0 | |
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| ORG: Institute of Physics, AN BSSR (Institut fiziki AN BSSR) TITLE: The time-dependence of the absorption coefficient under the effect of intense short-term fluxes SOURCE: AN BSSR. Doklady, v. 9, no. 10, 1965, 651-653 TOPIC TAGS: light absorption, absorption band, absorption coefficient, optic filter, optic property 2, 44,55 ABSTRACT: Recently, wide use has been made of optical switches made of a substance which becomes transparent under the effect of intense radiation fluxes of short duration. The search for bleachable absorbers is being conducted empirically. The present article examines the properties of a volume of the simplest two level system. It is assumed in the calculations that the broadening of the absorption band is uniform and, consequently, the incident fluxes cause no variation in the shape of the band. It is also assumed that the spectral width of the irradiating flux is considerably smaller than the width of the absorption band. An analysis of the calculations shows that the bleaching of the substance may be achieved only with certain fluxes. Flux that the bleaching of the substance may be achieved only with certain fluxes. Flux | OR: Stepanov. B. I.; Lashitskaya, | а. к. | 77 | |
| SOURCE: AN BSSR. Doklady, v. 9, no. 10, 1965, 651-653 21, 44,55 TOPIC TAGS: light absorption, absorption band, absorption coefficient, optic filter, optic property 2, 44,55 ABSTRACT: Recently, wide use has been made of optical switches made of a substance which becomes transparent under the effect of intense radiation fluxes of short duration. The search for bleachable absorbers is being conducted empirically. The pretion. The search for bleachable absorbers is being conducted empirically. The pretent article examines the properties of a volume of the simplest two level system. It is assumed in the calculations that the broadening of the absorption band is uniform and, consequently, the incident fluxes cause no variation in the shape of the band. It is also assumed that the spectral width of the irradiating flux is considerably smaller than the width of the absorption band. An analysis of the calculations shows smaller than the width of the substance may be achieved only with certain fluxes. Flux that the bleaching of the substance may be achieved only with certain fluxes. Flux | | | \mathcal{B} | |
| SOURCE: AN BSSR. Doklady, v. 9, no. 10, 1965, 651-653 21, 44,55 ROPIC TAGS: light absorption, absorption band, absorption coefficient, optic filter, optic property 2,44,55 ABSTRACT: Recently, wide use has been made of optical switches made of a substance which becomes transparent under the effect of intense radiation fluxes of short duration. The search for bleachable absorbers is being conducted empirically. The pretent article examines the properties of a volume of the simplest two level system. It is assumed in the calculations that the broadening of the absorption band is uniform and, consequently, the incident fluxes cause no variation in the shape of the band. It is also assumed that the spectral width of the irradiating flux is considerably smaller than the width of the absorption band. An analysis of the calculations shows smaller than the width of the substance may be achieved only with certain fluxes. Flux that the bleaching of the substance may be achieved only with certain fluxes. Flux | R. The time-dependence of the abso | rption coefficient w | nder the effect of inten | se |
| MOPIC TAGS: light absorption, absorption band, absorption coefficient, optic filter, optic property 2/44/55 ABSTRACT: Recently, wide use has been made of optical switches made of a substance which becomes transparent under the effect of intense radiation fluxes of short duration. The search for bleachable absorbers is being conducted empirically. The present article examines the properties of a volume of the simplest two level system. It is assumed in the calculations that the broadening of the absorption band is uniform and, consequently, the incident fluxes cause no variation in the shape of the band. It is also assumed that the spectral width of the irradiating flux is considerably smaller than the width of the absorption band. An analysis of the calculations shows smaller than the width of the substance may be achieved only with certain fluxes. Flux that the bleaching of the substance may be achieved only with certain fluxes. Flux | t-term fluxes | | | |
| MOPIC TAGS: light absorption, absorption band, absorption coefficient, optic filter, optic property 2, 44,55 ABSTRACT: Recently, wide use has been made of optical switches made of a substance which becomes transparent under the effect of intense radiation fluxes of short duration. The search for bleachable absorbers is being conducted empirically. The present article examines the properties of a volume of the simplest two level system. It is assumed in the calculations that the broadening of the absorption band is uniform and, consequently, the incident fluxes cause no variation in the shape of the band. It is also assumed that the spectral width of the irradiating flux is considerably smaller than the width of the absorption band. An analysis of the calculations shows smaller than the width of the substance may be achieved only with certain fluxes. Flux that the bleaching of the substance may be achieved only with certain fluxes. Flux | CE: AN BSSR. Doklady, v. 9, no. 1 | 0, 1965, 651-653 | | 1 |
| ABSTRACT: Recently, wide use has been made of optical switches made of a substance which becomes transparent under the effect of intense radiation fluxes of short duration. The search for bleachable absorbers is being conducted empirically. The present article examines the properties of a volume of the simplest two level system. It is assumed in the calculations that the broadening of the absorption band is uniform and, consequently, the incident fluxes cause no variation in the shape of the band. It is also assumed that the spectral width of the irradiating flux is considerably smaller than the width of the absorption band. An analysis of the calculations shows that the bleaching of the substance may be achieved only with certain fluxes. Flux that the bleaching of the substance may be achieved only with certain fluxes. | C TAGS: light absorption, absorpti | on band, absorption | coefficient, optic filte | r, |
| Card 1/2 | RACT: Recently, wide use has been the becomes transparent under the efficiency of the search for bleachable absorb article examines the properties of assumed in the calculations that the consequently, the incident fluxes is also assumed that the spectral willer than the width of the absorption the bleaching of the substance may nitudes at which bleaching is achieved relatively small and are easily pro- | ers is being conduct a volume of the sing broadening of the scause no variation idth of the irradiation band. An analysis be achieved only with the period during the period | ed empirically. The preplest two level system. bsorption band is unifor not estable of the band, not estable is considerably of the calculations should be considered in the certain fluxes. Fluxed of the order of 10 ⁻⁸ seexperimental conditions. | It rm · · · · · · · · · · · · · · · · · · |

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ACC NR: AP6036811

SOURCE CODE: UR/0368/66/005/005/0595/0603

AUTHOR: Stepanov, B. I.; Lashitskaya, R. K.

ORG: none

TITLE: The properties of passive Q-switches

SOURCE: Zhurnal prikladnoy spektroskopii, v. 5, no. 5, 1966, 595-603

TOPIC TAGS: laser, laser optic material, Q-switching, passive switching

ABSTRACT: A theoretical investigation was made of the properties of bleachable filters placed outside the resonant cavity. The dependencies of filter bleaching on the radiation intensity, initial transmission, time, and transition probabilities between the energy levels were determined. The transmission of light through the passive Q-switch results in energy losses through luminescence, thermoemission, and the accumulation of particles in excited states. The energy absorbed in a shutter with a transverse cross section s for a time Δt is $W_{abs} = vu_{o}s$ Δt (1 - T), where $vu_{o}s$ Δt is the energy incident on the shutter and $T = u/u_{o}$. The portion of incident energy lost inside the shutter is

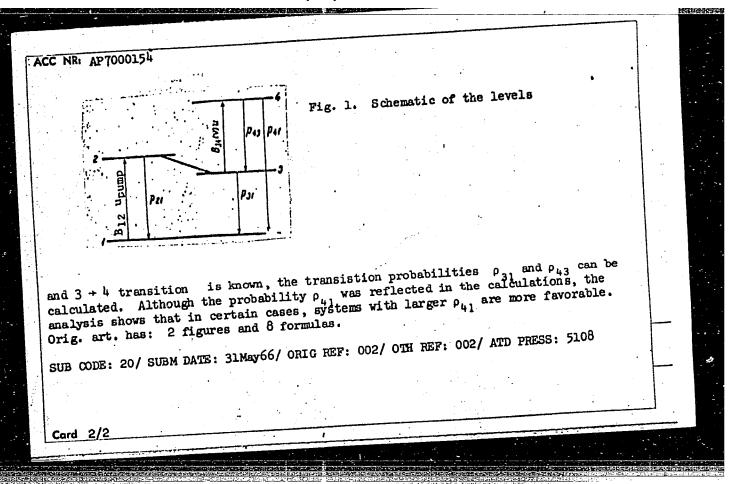
$$T = \frac{W_{\text{abs}}}{vu_0^{\text{B}} \Delta t} = \frac{1}{\alpha u_0} \ln \frac{T}{T_0}$$

mc: 535.8

Card 1/2

| where u is the radiation density. With the shutter is completely bleached. the absorption intensity approaches losses I gradually decreases. At larthe higher the nonlinearity of the system, the shorter the duration of Orig. art. has: 20 formulas and 3 formulas | rge u_0 , Γ_{11m} is in ystem, the smalle the excited state igures. | r the f. For a two- , the larger the Win | level m md r _{lim} . | |
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| AC | C NR: AP7000154 SOURCE CODE: UR/0250/66/010/011/0844/0 | 846 | | |
|----------------|--|-----------|---------------|-----|
| AU | THOR: Lashitskaya, R. K.; Stepanov, B. I. (Academician AN BSSR) | | | |
| OR | G: Institute of Physics AN BSSR (Institut fiziki AN BSSR) | | | _ |
| TI | FIE: Properties of bleachable filters with pre-populated metastable levels | | | |
| so | URCE: AN BSSR. Doklady, v. 10, no. 11, 1966, 844-846 | | • | _ |
| pe | PIC TACS: optical filter, bleachable filter, Q switching, laser modulation, ssive switching | | • | |
| al ar Ui | STRACT: A study was made of the bleaching process and the dependence of the sorption and transmission coefficients of a bleachable filter on densities upump and u, to generalize the results for any filter operating as a four-level system. The greater the model of such a filter (see Fig. 1). The results ranyl glass was used as the model of such a filter (see Fig. 1). The results ranyl glass when $u + \omega$, $T + 1$ and the total bleaching occurs under high adiation densities. The greater the pumping, the slower the saturation. | + 2 | | |
| I | adiation densities. The greater the pumping, the slower densities and due to 1 fithe experimental value of the function $T(u, u_{pump})$ and the absorption due to 1 fithe experimental value of the function $T(u, u_{pump})$ | | - | à |
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LASHKAREV, G.V. [Lashkar'ov, H.V.]; SAMSONOV, G.V. [Samsonov, H.V.]

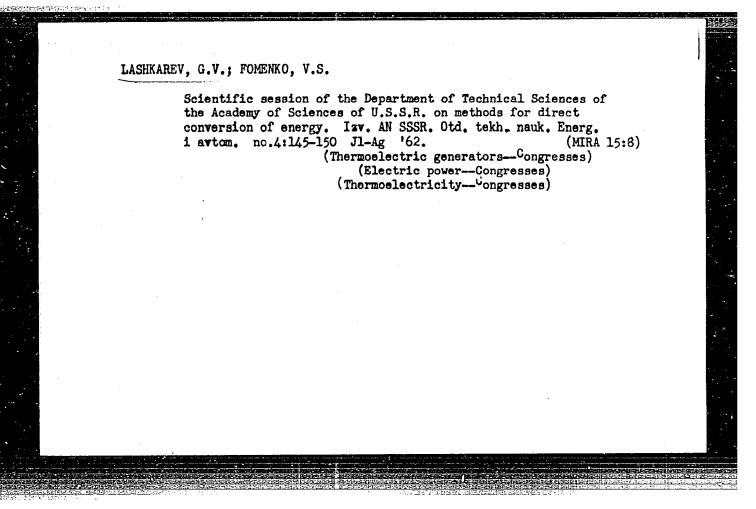
Characteristics of high-melting compounds of transition metals as material for thermoelectric transformers. Dop. AN URSR no.9:1148-1151 '61. (MIRA 14:11)

1. Institut metallokeramiki i spetsial'nykh spalvov AN USSR.

2. Chlenekorrespondent AN USSR (for Samsonov).
(Transition metals—Thermal properties)

LASHKAREV, Georgiy Vladimovich; TARANETS, Aleksey Mikhaylovich; FOMENKO, Vladlen Stepanovich; KILLEROG, N.M., red.; MATVEYCHUK, A.A., tekhn. red.

[New sources of electric energy] Novye istochniki elektricheskoi energii. Kiev, Izd-vo Akad. nauk USSR, 1962. 85 p. (MIRA 16:4) (Photoelectric cells) (Fuel cells) (Thermoelectricity)



40053

S/089/62/013/002/010/011 B102/B104

26.2532

AUTHORS:

Lashkarev, G. V., Samsonov, G. V.

TITLE:

Characteristics of some high-melting compounds of transition

metals as materials for thermoelectric converters

PERIODICAL: A

Atomnaya energiya, v. 13, no. 2, 1962, 187-188

THXT: The use of high-melting compounds as thermoelements in thermogenerators offers a possibility of raising their efficiency $T_{tg} = T_t N$, where $T_t = (T_1 - T_0)/T_1$ and T_1 and T_0 are the temperatures of the hot and cold junctions, respectively. $N = (M-1)/(M + T_0/T_1)$,

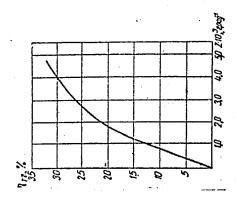
Characteristics of some high- ...

S/089/62/013/002/010/011 B102/B104

1 table.

SUBMITTED: September 25, 1961

Figure: η_{tg} as dependent on $z \cdot 10^3$ in %/deg for $T_o = 400^{\circ} K$ and T = 1200.



Card 2/2

L 250L7-65 EWT(m)/EWP(t)/EWP(b) IJP(c) JD/JG/MLK

ACCESSION NR: AT4048712

8/0000/64/000/000/0168/0171

AUTHOR: Obolonchik, V.A.; Lashkarev, G.V.

TITLE: Preparation, properties and prospective uses of rare earth metal selenides

SOURCE: Vsesovuznove soveshchanive po splavam redkikh metallov, 1963. Voprosy* teorii i primeneniya redkozemel'ny*kh metallov (Problems in the theory and use of rareearth metals); materialy* soveshchaniya. Moscow, Izd-vo Nauaka, 1964, 166-171

TOPIC TACS: rare earth metal, rare earth selenide, hydrogen selenide, semiconductor, selenide synthesis, rare earth oxide

ABSTRACT: The preparation of rare earth selenides directly from the rare earth oxides by heating an intimate mixture of the metal oxide with selenium or hydrogen selenide was studied for cerium, lanthanum and other rare earth metals. CeO₂ and sevenium, rapidly heated in argon to temperatures of 1200C yielded only the unstable cerium oxyselenides. Hydrogen selenide and CeO₂, heated to 1100C and maintained for a short time, yielded cerium monoselenide with admixtures of free selenium; maintaining such a temperature for 5-6 hours yielded cerium sesquiselenide in stoichiometric amounts. At temperature of 500-700C, a mixture of CeSe₂, Cè₂O₃ and residual CeO₂ was found. Lanthanum selenides

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L 25047-65

ACCESSION NR: AT4048712

were obtained from H₂Se and the metal oxide under the same conditions. The disclenide was formed at 700-800C, the sesquiselenide at 1100-1200C, the monoselenoide only upon further heating of the sesquiselenide in a vacuum. Further tests of the reaction of rare earth oxides with H₂Se were conducted at 1100C maintained for 2-2.5 hours. Selenides were obtained for Pr, Nd, Sm, Eu and Tb. The other rare earths yielded only oxyselenides. The compounds obtained are tabulated and described. The rare earth metals thus form selenium compounds with H₂Se having the following formulas: MeSe, Me₃Se₄, Me₂Se₃ and Me₂Se₄, as well as Me₂O₂Se; among these, only MeSe has been detected for all rare earths. The effective magnetic moments of the rare earth metal ions and their selenides are tabulated. All the monoselenides, except those of Sm, Eu and Yb, have one free electron which does not participate in the formation of the ionic bond. These should be metallic conductors, while the remaining 3 elements are apparently semiconductors. In the sesquiselenides, all ions participate in ionic bond formation; they are thus semiconductors. The selenides of the Me₂Se₄ type have 2 unfilled bonds in the molecule, which determines the hole character of conductivity. T.M. Mikhling took part in this work. Orig. art. has:

Card 2/3

LASHKAREV, G.V. [Lashkar'kov, H.V.]; PADERNO, Yu.B.

Electric properties of Pr₂Se₃ and Nd₂Se₃. Ukr. fiz. zhur. 10 no.5:566-568 My '65. (MIRA 18:5)

1. Institut problem materialovedeniya AN UkrSSR, Kiyev.

L 7928-66 EWT (m)/ETC/EWG(m)/EWP(t)/EWP(b) RDW/JD/JG IJP(c) SOURCE CODE: UR/0363/65/001/010/1791/1802 ACC NR: AP5027936 AUTHOR: Lashkarev, G. V.; Paderno, Yu. B. ORG: Institute of Materials Science Problems, Academy of Sciences, UkrSSR, Kiev (Institut problem materialovedeniya Akademii nauk UkrSSR) TITLE: Physical properties and chemical bonding of rare earth chalcogenides SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 1, no. 10, 1965, 1791-TOPIC TAGS: rare earth metal, selenide, telluride, sulfide, semiconducting material 1802 ABSTRACT: Available data on the crystal structure and the magnetic, electric, thermal, and galvanomagnetic properties of rare earth chalcogenides are systematized. The forbidden gap widths of sesquiselenides from lanthanum to samarium and of Sm2S3 are determined. Coefficients of thermal expansion of these compounds and of Pr, Nd, and Sm oxytellurides and also the thermal conductivity coefficients of La, Ce, and Nd sesquiselenides are measured. The interatomic distances M-M, M-X, and X-X in mono- and sesquichalcogenides and ditellurides of rare earths are calculated. An attempt is made to account for the fact that the conduction band in rare earth chalcogenides is the 5d band of rare earth metals. The energy gap between $4f^6$, $4f^7$, and $4f^{14}$ levels of rare earth ions Card 1/2 UDC: 546.65 221+546.65 231+546.65 241 Card 1/2

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| confirmed for M ₂ C | 2Te. Authors exp | ress their sin | cere appreciat | ion to G. V. Same | sonov. 55 |
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CIA-RDP86-00513R000928710016-7

IJP(c) JD/JG EWT(m)/EWP(t) I, 16806-66 SOURCE CODE: UR/0363/66/002/001/0100/0104 ACC NR: AP6003368 AUTHOR: Obolonchik, V.A.; Lashkarev, G.V.; Dem'yanchuk, V.G. 34 ORG: Institute of Materials Science Problems, Academy of Sciences SSSR (Institut problem materialovedeniya Akademii nauk SSSR) TITLE: Preparation and some physicochemical properties of rare earth oxytellurides SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 2, no. 1, 1966, 100-104 TOPIC TAGS: rare earth, telluride, lanthanum compound, cerium compound, praseodymium compound, neodymium compound, samarium compound, gadolinium compound, dysprosium compound ABSTRACT: Oxytellurides of stoichiometric composition corresponding to the formula M_2O_2 Te (where M = La, Ce, Pr, Nd, Sm, Gd, Dy) were synthesized by reacting rare earth oxides with tellurium vaporlin a hydrogen atmosphere in graphite boats at temperatures of 1000 - 1100C. The oxytellurides are unstable. Lanthanum, praseodymium, neodymium, and samarium oxytellurides are stable at elevated temperatures in air because of formation of a thin metal oxide film on the surface. The electrical conductivity at room temperature and the temperature dependence of the thermal expansion UDC: 546.442'24'45:543.5 Card 1/2

| L 16806-66 ACC NR: AP6003368 of praseodymium, neodymium, and samarium oxytellurides were measured time, as was the temperature dependence of the magnetic susceptibility time, as was the temperature dependence of the magnetic susceptibility time, as was the temperature dependence of the magnetic susceptibility urides from lanthanum to samarium. The nature of chemical bonding, urides from lanthanum to samarium at the conductivity of these compounds to be nonmetallic in character, is the conductivity of these compounds to be nonmetallic in character, is | oured for the first of the oxytell- which causes discussed. Orig. |
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| 지수 가게하다 하게 하는 사람들은 사람들도 되었다. 다음하다 하지만 수 있는 학생들도 하셨다. 한 그는 모모나 | |

WH/JD 06482-67 ACC NR AP6028294 SOURCE CODE: UR/0363/66/002/006/0980/0983 AUTHOR: Dudnik, Ye. M.; Lashkarev, G. V.; Paderno, Yu. B.; Coolonchik, V. A. CRG: Institute of Materials Science Problems, Academy of Sciences, UkrSSR (Institut problem materialovedeniya Akademii nauk UkrSSR) TITIE Thermal expansion of rare earth chalcogenides b SOURCE: AN SSSR. Izvestiya. Neorganicheskiye materialy, v. 2, no. 6, 1966, 980-983 TOPIC TAGS: thermal expansion, selenide, telluride, rare earth compound ABSTRACT: The temperature dependence of the relative elongation of EuS, EuSe, La2Se3, Ce₂Se₃, Pr₂Se₃, Nd₂Se₃, Nd₂Se₃, Sm₂Se₃, Sm₂S₃, Pr₂O₂Te and Sm₂O₂Te was studied in the range from room temperature to 800 K. The measurements were made with a quartz dilatometer. In passing from the rare earth metals to their compounds with an ionic-covalept bond character, the thermal expansion coefficient a increases (with the exception of europium), apparently because of an increased anharmonicity of the thermal vibrations of the crystal lattice. The value of a of the chalcogenides increases in the rare earth series and in passing from sulfides to selenides; this is also due to in-

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creased anharmonicity. The α values of oxytellurides are intermediate between those of oxides and sesquisulfides. From the α values, the Debye temperatures θ of the compounds were calculated and found to decrease with increasing atomic number of the rare earth metal (except in the case of samarium). The melting points of the sesquisele-

| des were also estimated from the a values. Authors express their appreciation to M. Mikhlina and V. G. Dem'yanchuk for assistance in the preparation of the compact mples and for performing chemical analyses of the rare earth chalcogenides, and also | | | | | | | | | | |
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ACC NR: AM6017555

Monograph.

JR/

Obolonchik, Vasiliy Andreyevich; Lashkarev, Georgiy Vadimovich

Selenides and tellurides of rare-earth metals and actinides (Selenidy 1 telluridy redkozemel'nykh metallov i aktinoidov) Kiev, Naukova dumka, 1966. 161 p. illus., biblio. (At head of title: Akademiya nauk Ukrainskoy SSR. Institut problem materialovedeniya) 1500 copies printed.

TOPIC TAGS: selenide, telluride, rare earth metal, actinide series, lanthanide series, inorganic synthesis, chemical detection, quantitative analysis, semiconductor research

PURPOSE AND COVERAGE: This monograph attempts a systematic review of Soviet and Western research on selenides and tellurides of the rare-earth metals and actinides for the benefit of the engineers, technicians, and scientists working in the field of research and application of rare-earth metals and actinides. An up-to-date collection of research data, mostly Western, was systematically presented in this monograph. The data concern crystal structure, physical and chemical properties, methods of preparation and chemical analysis of selenides and tellurides of rare-earth metals and actinides (uranium and thorium). A general evaluation of the data presented was made in the foreword. The Soviet scientists, V. P.

Card 1/3.

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Zhuze, V. M. Sergeyeva, and A. V. Golubkov from Leningrad, N. P. Luzhnaya, V. I. Spitsyn, and Ye. I. Yarembash from Moscow, and G. V. Samsonov and S. V. Radzikovskaya from Kiev are considered to be the chief contributors to the research on preparation and properties of the rare earth metal chalcogenides. The possibility of the application of these compounds in high-temperature semiconductor electronics is stressed in the foreword. Included in the monograph are the most recent (1965) contributions by the authors to knowledge of physical and chemical properties and to preparation of certain selenides and oxytellurides of rare-earth metals. Chapters I, III, IV, V, and VII were written by V. A. Obolonchik, II and VI by G. V. Lashkarev. Thanks are expressed to A. M. Golub, professor, PhD in chemistry, and to Yu. B. Paderno, Candidate of Technical Sciences. There are 121 references, including about 30% Communist sources.

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Ch. I. Selenium, tellurium, and their compounds -- 5
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Ch. III. Chemical properties of selenides and tellurides of rare-earth

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metals and actinides -- 106 Ch. IV. Methods of preparation of selenides and tellurides of rareearth metals and actinides -- 113 Ch. V. Preparation of selenides and tellurides of rare-earth metals and actinides -- 120 Ch. VI. Methods of detection and chemical analysis of selenides and tellurides -- 141 Ch. VII. Practical methods of quantitative analysis of selenides and tellurides -- 148 Ch. VIII. Potential applications of chalcogenides of RE metals and actinides -- 153 Ch. IX. Data on accident prevention in the work with selenium, tellurium, and their compounds -- 155 SUB CODE: 07, 11/ SUBM DATE: 23Feb66/ ORIG REF: 034/ OTH REF: 087

ACC NR: AT7003886

SOURCE CODE: UR/0000/66/000/000/0251/0260

AUTHOR: Zalevskiy, B. K.; Lashkarev, G. V.; Sobolev, V. V.; Syrbu, N. N.

ORG: none

TITLE: Experimental studies of the structure of energy bands in certain rare earth element chalcogenides

SOURCE: AN BSSR. Institut fiziki tverdogo tela i poluprovodnikov. Khimicheskaya svyaz' v poluprovodnikakh i termodinamika (Chemical bond in semiconductors and thermodynamics). Minsk, Nauka i tekhnika, 1966, 251-260

TOPIC TAGS: compound sumiconductor, refractory compound, sulfide, selenide, oxytelluride, rare earth compound, semiconductor band structure, reflection spectrum, carres of the Structure.

ABSTRACT: Reflection spectra in the 200—1200 mµ range of seven rare earth element chalcogenides and three oxytellurides have been obtained at 293°K and interpreted in terms of the theory of energy band structure of semiconductors. The compacted polycrystalline samples used in the experiments were prepared by sintering at 1000—1750°C powdered components in hydrogen sulfide or selenide atmosphere or in evacuated quartz ampules. Reflection spectra in the region of energy greater than the minimum forbidden energy gap (Eg) were similar for all the compounds studied. This fact indicates a great similarity in the structure of energy bands between chalcogenides and oxytellurides of the rare earth elements. Structural peculiarities

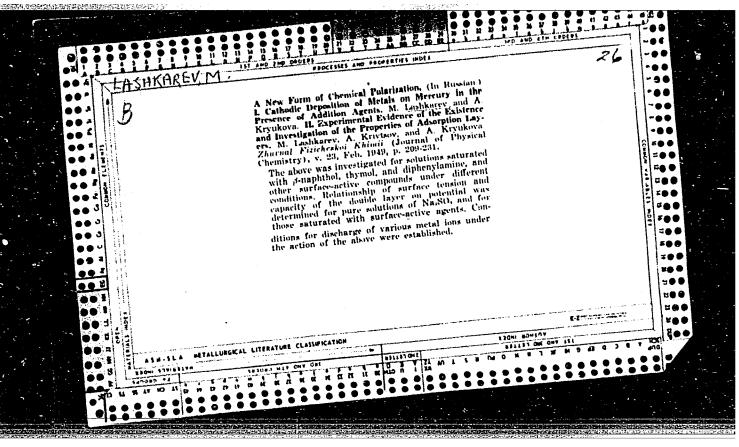
Card 1/2

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of the M_2X_3 and MX compound semiconductors were derived from the weak reflection peaks of Ce_2S1_3 , Nd_2S1_3 , and EuSe and from the reflection peaks in the 240—420 mm region of Sm_2S_3 and sesquiselenides of La, Le, PR, Nd, and Sm. Orig. art. has: 4 figures, 1 table, and 3 formulas.

SUB CODE: 07/ SUBM DATE: 20Aug66/ ORIG REF: 011/ OTH REF: 010/



LASHKAREV, O.N., red.; SOKOLOVA, N.N., tekhn.red.; FEDOTOVA, A.F., tekhn.red.

[Forestry and land improvement through afforestation]
Lesovodatvo i agrolesomelioratsiia. Moskva, Gos.izd-vo
(MIRA 12:11)
sel'khoz.lit-ry, 1959. 325 p.

1. Vsesoyuznaya akademiya sel'skokhozyaystvennykh nauk imeni V.I. Lenina. (Forests and forestry)

DONIN, B., inzh.; KRYS'KO, A., inzh.; LEYCHIK, V., inzh.; LASHKAREV, V., inzh.

Devices and instruments for automatic signalization of overheaping and blocking of transportation tubes. Muk.-elev. prom. 25 no.9:17-19 S 159. (MIRA 12:12)

1. Odesskiy proyektno-konstruktorskiy institut kompleksnoy avtomatizatsii pishchevykh predpriyatiy.

(Signals and signaling)

